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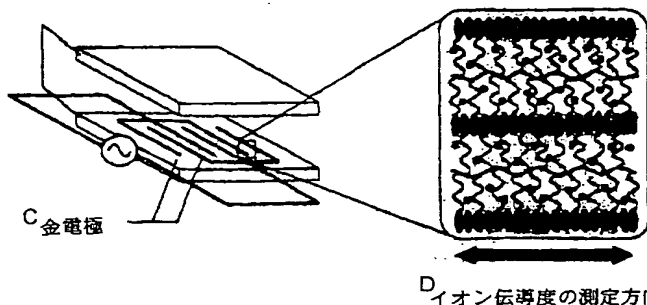
2 文字コード及び他の略語については、定期発行される  
各 PCT ガゼットの巻頭に掲載されている「コードと略語  
のガイダンスノート」を参照。

(54) Title: POLYMERIZABLE ION-CONDUCTIVE LIQUID-CRYSTALLINE COMPOSITE, ANISOTROPICALLY ION-CONDUCTIVE POLYMERIC LIQUID-CRYSTAL COMPOSITE, AND PROCESS FOR PRODUCING THE SAME

(54) 発明の名称: 重合可能なイオン伝導性液晶性複合体と異方的イオン伝導性高分子液晶複合体並びにその製造方法

A セル A (σ<sub>ij</sub>)

B ガラス基板



A...CELL A  
B...GLASS SUBSTRATE  
C...GOLD ELECTRODE  
D...DIRECTION OF IONIC-CONDUCTIVITY MEASUREMENT

(57) Abstract: A composite of an organic monomer compound having a molecular structure containing a polymerizable part, a part for forming an ion composite, and a mesogenic part imparting liquid crystallinity with an (in)organic salt is polymerized at the polymerizable part of the organic monomer compound. Thus, an anisotropically ion-conductive polymeric liquid-crystal composite is obtained. A new material is thus provided which combines the high ionic conductivity inherent in polyelectrolytes, the anisotropy due to liquid-crystal orientation, and the self-supporting properties possessed by polymeric compounds.

[続葉有]

ATTACHMENT E

WO 03/062286 A1

## INTERNATIONAL SEARCH REPORT

International Application No.

PC/JPO3/00555

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C08F20/30, C08F2/44, C08F2/46//C09K19/38

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C08F12/00-12/36, 16/00-38/04, 112/00-112/36, 116/00-138/04, 212/00-212/36, 216/00-238/04, C08F2/44-2/50, C09K19/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI/L, CAS ONLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E,X	JP 2003-64259 A (Fuji Photo Film Co., Ltd.), 05 March, 2003 (05.03.03), Claims; Par. Nos. [0042] to [0083] (Family: none)	1-5
E,X	JP 2003-20479 A (Canon Inc.), 24 January, 2003 (24.01.03), Full text (Family: none)	1-5
P,X	JP 2002-170426 A (Fuji Photo Film Co., Ltd.), 14 June, 2002 (14.06.02), Full text & US 2002/55046 A1	1-5

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
14 April, 2003 (14.04.03)Date of mailing of the international search report  
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	JP 2002-105033 A (Canon Inc.), 10 April, 2002 (10.04.02), Full text & EP 1176184 A2 & US 2002/47104 A1	1-5
X	JP 2001-202995 A (Fuji Photo Film Co., Ltd.), 27 July, 2001 (27.07.01), Full text & EP 1116769 A2 & US 2002/34690 A1	1-5
X	JP 11-86629 A (Mitsubishi Electric Corp.), 30 March, 1999 (30.03.99), Claims; examples (Family: none)	3

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"&" document member of the same patent family

Date of the actual completion of the international search  
14 April, 2003 (14.04.03)

Date of mailing of the international search report  
30 April, 2003 (30.04.03)

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Japanese Patent Office

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